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ON SEVERAL NEW MICROSCOPICAL ACCESSORIES.

E. H. GRIFFITH, A. M., F. R. M. S., Fairport, N. Y.

Mechanical Finger.

Fig. 1

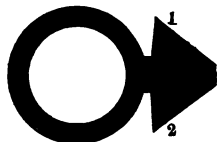


Fig. 2

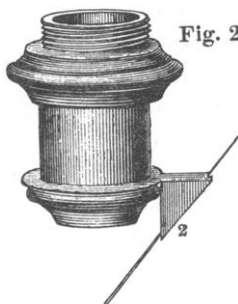
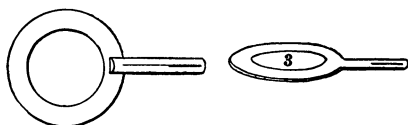


Fig. 3

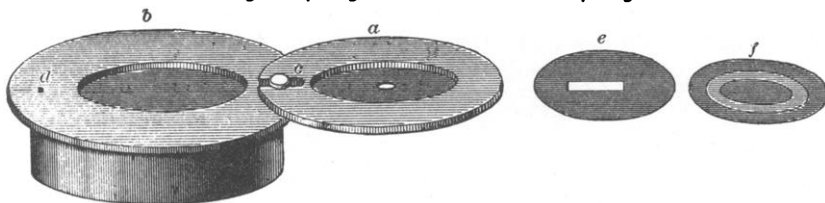


it would answer the same purpose. (See fig. 3.)

A cheap mechanical finger for those who cannot afford to purchase a better one may be quickly made as follows: Procure a strip of sheet brass or other metal and cut it like *fig. 1*. Make the aperture just large enough to fit over the screw which fastens the lower system of a low-power objective to the barrel of the objective. Bend the points (1 and 2) down, so that they will meet and serve as a bristle clamp. Remove the lower system of the objective, and put in the thin brass plate as in *fig. 2*, then draw a cat's whisker between 1 and 2, and the finger will be ready for use as soon as the point of the whisker is in focus and in the center of the field.

A divided wire might be soldered on the ring in *fig. 1*, and

Sub-Stage Diaphragm Holder and Glass Diaphragms.



The holder is a metal disk (a), which is to be fastened to the sub-stage fittings (b) by means of the screw (c), which allows it to be

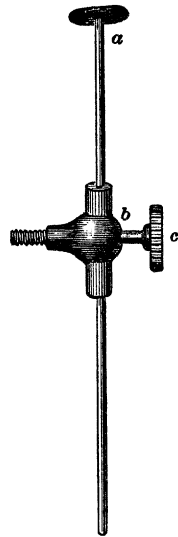
turned in any position. An aperture of any desired diameter is made in the holder (*a*), and provided with a ledge for the support of diaphragms which may be dropped into position when the holder is turned one side, as would be indicated in the cut were the disk turned over. The slot at *e* allows the diaphragm to be placed central with the objective on a decentered stage. The screw-head at *c* should be of sufficient size to retain the holder in any position placed. The pin (*d*) is to indicate a central position when the holder is to be used on a well centered stage.

Thin metal disks with various apertures may be used for diaphragms, but much cheaper ones may be made by placing common round cover-glasses (*e*, *f*) on the turn-table, and with a brush quickly covering all but the desired aperture with asphalt or other pigment. In the place of diaphragms various colored glasses for the modification of light may be used.

The Griffith Focus Indicator.

The injury of objectives and of several valuable test slides, through the ignorance or carelessness of parties examining them, suggested the need of some device for their protection. The focus indicator and danger signal is the result. The device consists of the needle (*a*), the support (*b*), and the set-screw (*c*)

It may be attached to a ring to be placed between the objective and the nose piece, to the nose-piece itself, to extra adapter or to the objective. When desired for use the set screw (*c*) should be loosened, when the needle (*a*) will drop to the slide outside the cover-glass. After the focus has been found the set-screw (*c*) should be firmly set while the needle rests on the slide, and it will then not only indicate the focus on slides of any thickness, but at the same time it will protect the slide and also the objective. When used for different persons the objective should be turned down a trifle past the focus so that it may be changed for different eyes. In many ways this simple device may be used to great advantage. At microscopical soirées and at all other public



entertainments where the microscope is to be used, it will be very popular as a slide and an objective protector. Even those who "know all about the microscope," and "just how to use it," and who will not allow a word of caution without being offended, will find it impossible to "go through their usual number of test slides."

Griffith Pocket Slide Cabinet.



This cabinet is intended especially for pocket use. It is similar to another already in the market, but in the place of rack work in that trays are used in this. A feature in its favor, that will be appreciated by those who carry slides in pockets, is its security from opening. The cut is all the explanation needed.

Zylonite Cells.

These cells are nearly or quite as beautiful as glass, and in their use there is no danger of breakage. They should be made for less money than glass cells now cost.